

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference X-16115	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/US2005/005418	International filing date (day/month/year) 18/02/2005	(Earliest) Priority Date (day/month/year) 25/02/2004
Applicant ELI LILLY AND COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

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It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒

the text is approved as submitted by the applicant.

☐

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒

the text is approved as submitted by the applicant.

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐

as suggested by the applicant.

☐

as selected by this Authority, because the applicant failed to suggest a figure.

☐

as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/005418

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7	C07D223/16	C07D401/12	C07D417/12	C07D413/12	C07D403/12
	C07D409/12	C07D405/12	C07D413/14	C07D417/06	C07D403/06
	A61K31/55	A61P25/22	A61P25/24	A61P25/30	A61P3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	✓ WO 93/04686 A (SMITHKLINE BEECHAM CORPORATION) 18 March 1993 (1993-03-18) cited in the application page 11, line 3 - line 18 claim 6	1-37
X	✓ US 4 265 890 A (HOLDEN ET AL) 5 May 1981 (1981-05-05) cited in the application example 19	1-15
Y	✓ WO 93/03015 A (SMITHKLINE BEECHAM CORPORATION) 18 February 1993 (1993-02-18) cited in the application page 11, line 3 - line 18 claim 7	1-37
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

18 May 2005

Date of mailing of the international search report

02/06/2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/005418

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>✓ KILPATRICK, ANDREW T. ET AL: "The α₂-adrenoceptor antagonist SK & F 104078 has high affinity for 5-HT_{1A} and 5-HT₂ receptors" EUROPEAN JOURNAL OF PHARMACOLOGY , 166(2), 315-18 CODEN: EJPHAZ; ISSN: 0014-2999, 1989, XP002328505 cited in the application abstract</p> <p>-----</p>	1-37
A	<p>DATABASE WPI Section Ch, Week 200274 Derwent Publications Ltd., London, GB; Class B02, AN 2002-691852 ✓ XP002328506 ✓ & WO 02/074746 A1 (YAMANOUCHI PHARM CO LTD) 26 September 2002 (2002-09-26) cited in the application page 32; examples 75,76</p> <p>-----</p>	1-37

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/005418

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 18-25
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 18-25 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/005418

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9304686	A	18-03-1993	AU 2654792 A EP 0603314 A1 JP 6510545 T WO 9304686 A1	05-04-1993 29-06-1994 24-11-1994 18-03-1993
US 4265890	A	05-05-1981	AR 222828 A1 AT 2267 T AT 19069 T AU 525789 B2 AU 4861379 A CA 1115271 A1 CS 213381 B2 DD 147355 A5 DE 2964530 D1 DE 2967590 D1 DK 278379 A ,B, EP 0007070 A1 EP 0080012 A1 ES 482276 A1 ES 482281 A1 ES 482282 A1 FI 792125 A ,B, GR 69675 A1 HU 179315 B IE 48655 B1 IE 48654 B1 IL 57532 A IT 1193190 B JP 1053271 B JP 55011584 A MY 93387 A NO 792267 A ,B, NZ 190745 A PH 15754 A PL 216908 A1 PT 69855 A SU 1029827 A3 ZA 7902785 A	30-06-1981 15-02-1983 15-04-1986 02-12-1982 07-02-1980 29-12-1981 09-04-1982 01-04-1981 24-02-1983 15-05-1986 08-01-1980 23-01-1980 01-06-1983 01-04-1980 01-04-1980 01-04-1980 08-01-1980 07-07-1982 28-09-1982 03-04-1985 03-04-1985 31-08-1982 02-06-1988 13-11-1989 26-01-1980 31-12-1987 08-01-1980 23-01-1981 18-03-1983 11-08-1980 01-08-1979 15-07-1983 27-08-1980
WO 9303015	A	18-02-1993	AU 2433092 A EP 0630372 A1 JP 6511239 T WO 9303015 A1 US 5639748 A	02-03-1993 28-12-1994 15-12-1994 18-02-1993 17-06-1997
WO 02074746	A1	26-09-2002	NONE	